

X-RAY TUBE CATHODE CUP STRUCTURE  
FOR FOCAL SPOT DEFLECTION

Abstract of the Disclosure

A cathode assembly (18, 216) for an x-ray tube (1) includes a base (60, 220) to which a filament (66) is mounted. A pair of deflectors (82, 84) are carried by the base for deflecting a beam (A) of electrons generated by the  
5 filament. Metal tubes (130, 132) are mounted in bores (106) of insulator blocks (104, 105). Metalized ends (150) of the insulator blocks are brazed into bores (122, 222, 224) in the base. A rod (130, 132) attached to the deflector is slid into the tube and the deflector's position and  
10 alignment are gauged and accurately set. The rod and tube are crimped to set the deflector position then welded.